Scopus

Document details

Back to results | 1 of 1

Export Download Print E-mail Save to PDF Add to List More...

View at Publisher

Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)
Volume 8733, 2014, Pages 20-29

Fuzzy splicing systems (Article)

Karimi, F.[a], Turaev, S.[b], Sarmin, N.H.[c], Fong, W.H.[d]

[a]Royal Society Wolfson Biocomputation Research Lab, Biocomputation School of Computer Science, University of Hertfordshire, Hatfield, Hertfordshire, United Kingdom
[b]Department of Computer Science, Kulliyyah of Information and Communication Technology, International Islamic University Malaysia, Kuala Lumpur, Malaysia
[c]Department of Mathematical Sciences, Universiti Teknologi Malaysia, UTM, Johor Bahru, Johor, Malaysia

View additional affiliations

Abstract

View references (9)

In this paper we introduce a new variant of splicing systems, called fuzzy splicing systems, and establish some basic properties of language families generated by this type of splicing systems. We study the "fuzzy effect" on splicing operations, and show that the "fuzzification" of splicing systems can increase and decrease the computational power of splicing systems with finite components with respect to fuzzy operations and cut-points chosen for threshold languages. © Springer International Publishing Switzerland 2014.

Indexed keywords

Engineering controlled terms: Artificial intelligence, Computers

Computational power
Cut point
Fuzzifications
Fuzzy operation
Splicing operation
Splicing systems

Engineering main heading: Computational linguistics

ISSN: 03029743
Source Type: Book series
Original language: English
Document Type: Article
Publisher: Springer Verlag

References (9)

View in search results format

All | Export Print E-mail Save to PDF Create bibliography